



State of New Hampshire
DEPARTMENT OF ENVIRONMENTAL SERVICES

6 Hazen Drive, P.O. Box 95, Concord, NH 03302-0095

(603) 271-3406 FAX (603) 271-7894

May 15, 2002

Letter of Deficiency

DAM #009.17



Mr. Eric Tenney, Chairman
Town of Antrim
66 Main Street
P.O. Box 517
Antrim, NH 03440

RE: Campbell Pond Dam, Antrim

Dear Chairman Tenney:

The Department of Environmental Services, Dam Bureau (DES) consistently strives to enhance the safety of dams in New Hampshire through its dam safety program. One of the many instruments that plays a part in reaching this goal is our inspection program. DES is forwarding this correspondence to you to advise you that in accordance with RSA 482:12 and Env-Wr 502.02, an inspection of the subject dam was conducted on August 9, 2001. During this visual inspection and/or file review, the following deficiencies were observed:

1. Brush and small tree growth was abundant along most of the downstream earth embankment and abutments hindering inspect efforts;
2. Beaver debris completely blocked both stoplog bays to the top of the dam. Additionally, debris/beaver debris was observed downstream of most of the dam also hindering inspection efforts and indicative of frequent overtopping;
3. There was a fence placed across the downstream outlet channel collecting debris and impeding downstream flow;
4. Erosion at the far right abutment of the dam was observed, likely as the result of previous overtopping in this area;
5. There was approximately 1 inch of separation at a concrete joint in the dam to the right of the low-level outlet. A smaller displacement of a joint was observed approximately 6 feet left of the stoplog bays;
6. There appeared to be standing water immediately downstream of the low-level outlet that may or may not be seepage; and
7. There was no operation and maintenance plan on file with the DES.

DES believes that the above deficiencies can be corrected by performing the following items by the indicated schedule:

October 1, 2002:

1. Remove brush and tree growth from along the downstream earth embankment and from within 10 feet of the dam's downstream toe and abutments;

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2. Remove the beaver debris that completely blocks both stoplog bays to the top of the dam and that is present along the downstream face of the dam;
3. Remove the fence placed across the downstream outlet channel to prevent debris from impeding flow through the downstream channel;
4. Repair the erosion at the far right abutment of the dam and place large riprap at each abutment to a level approximately 1-foot above the concrete cap to support the dam for overtopping;
5. Investigate and repair the two joint separations located in the following areas:
 - a. Approximately 20-feet to the right of the low level outlet;
 - b. Approximately 6 feet to the left of the stoplog bays;
6. Investigate the source of the standing water downstream of the low-level outlet upon removal of the downstream debris and report to our office as to the possible source of the water; and
7. Prepare and submit to the DES a written operational procedure plan. The plan should describe the control of impoundment levels, monitoring and maintenance procedures, and identify emergency contact personnel.

DES is requesting that you complete and submit the attached "Intent to Complete Repairs" form, within 30 days of receipt of this letter, that will provide for correction of the identified deficiencies by the date(s) indicated above. If you believe changes to the items of work or dates are necessary, please make the changes directly on the form and provide a brief explanation. We have enclosed a self addressed stamped envelope for you to return this form.

Our intent in sending you this correspondence is to make you aware of items that DES believes warrant your attention to insure the continued safe operation of your dam. It is our hope that, through the submittal of the attached form and a commitment to keeping a well-maintained dam, you will voluntarily comply with the requested items of work. If we do not receive the intent form or a similarly adequate written reply, we will assume that you are in agreement with our findings and recommendations and DES will carry out follow-up inspections accordingly.

If you have any questions or comments regarding this Letter of Deficiency or would like to be present at future inspections, please contact me at 271-3406, or write to the Water Division at the address listed on the top of the previous page.

Sincerely,

COPY 

Dale F. Guinn, P.E.
Dam Safety Engineer

Attachments Guideline for an O&M Plan, DB8, DB13
cc: Gretchen Rule
Certified # 7099.3400.0002.9773.7481
DFG/was/h:/safety/wendy/lod/009-17lod.doc